



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW308C
UNIQUE ID NUMBER: 7PW080
COMBUSTOR: Annular
ENGINE TYPE: MTF

BYPASS RATIO: 4.1
PRESSURE RATIO (π_{00}): 20.7
RATED THRUST (F_{00}) (kN): 31.2

REGULATORY DATA

** DATA SUPERSEDED **

SEE FOLLOWING UID FOR REVISED DATA:

01P07PW146

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	15.9	109.8	48.1	8.3
AS % OF ORIGINAL LIMIT	81.1	93.1	59.1	25.5
AS % OF CAEP/2 LIMIT (NO _x)			73.9	
AS % OF CAEP/4 LIMIT (NO _x)			74.9	
AS % OF CAEP/6 LIMIT (NO _x)			75.5	
AS % OF CAEP/8 LIMIT (NO _x)			80.1	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	0.367	0.09	0.81	18.45	4.8
CLIMB OUT	85	2.2	0.305	0.10	0.97	15.99	3.9
APPROACH	30	4.0	0.124	0.14	5.23	7.83	1.4
IDLE	7	26.0	0.045	5.94	42.30	3.63	1.3
LTO TOTAL FUEL (kg) or EMISSIONS (g)			155	425	3163	1414	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				13.6	101.5	45.4	7.6
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)				12.5-15.2	99-105.9	45-45.92	5.3-9.4

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.9-100.7
TEMPERATURE (K)	296-301
ABS HUMIDITY (kg/kg)	0.0088-0.0122

FUEL

SPEC	Jet A-1
H/C	1.85-1.86
AROM (%)	19.8-21.4

MANUFACTURER: Pratt & Whitney Canada
TEST ORGANIZATION: PW308 Development Engineering
TEST LOCATION: Mississauga, Ontario, Canada
TEST DATES: 07/08/2001-31/08/2001

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

1. P&WC ER 5080
2. Engines E9633/01, E9631/07, CF0001/03
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation,
-' if information is not available)